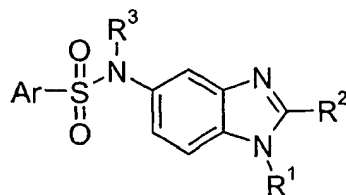


What is claimed is:

1. A compound of Formula I or a pharmaceutically acceptable salt thereof:



I

- 5 wherein

R^1 is selected from C_{1-10} alkyl, C_{2-10} alkenyl, C_{3-10} cycloalkyl- C_{1-4} alkyl, C_{4-8} cycloalkenyl- C_{1-4} alkyl, C_{3-6} heterocycloalkyl- C_{1-4} alkyl, C_{3-10} cycloalkyl, C_{4-8} cycloalkenyl, and C_{3-6} heterocycloalkyl, wherein said C_{1-10} alkyl, C_{2-10} alkenyl, C_{3-10} cycloalkyl- C_{1-4} alkyl, C_{4-8} cycloalkenyl- C_{1-4} alkyl, C_{3-6} heterocycloalkyl- C_{1-4} alkyl, C_{3-10} cycloalkyl, C_{4-8} cycloalkenyl, and C_{3-6} heterocycloalkyl used in defining R^1 is optionally substituted by one or more groups selected from halogen, cyano, nitro, methoxy, ethoxy, methyl, ethyl, hydroxy and amino;

R^2 is selected from C_{1-10} alkyl, C_{2-10} alkenyl, C_{3-10} cycloalkyl, C_{3-10} cycloalkyl- C_{1-4} alkyl, and C_{4-8} cycloalkenyl- C_{1-4} alkyl, wherein said C_{1-10} alkyl, C_{2-10} alkenyl, C_{3-10} cycloalkyl, C_{3-10} cycloalkyl- C_{1-4} alkyl, and C_{4-8} cycloalkenyl- C_{1-4} alkyl used in defining R^2 is optionally substituted by one or more groups selected from halogen, methoxy, ethoxy, methyl, ethyl, hydroxy, and amino;

R^3 is selected from -H, C_{1-6} alkyl, C_{2-6} alkenyl, C_{3-6} cycloalkyl, and C_{3-6} cycloalkyl- C_{1-4} alkyl; and

Ar is selected from C_{6-10} aryl and C_{3-6} heteroaryl, wherein said C_{6-10} aryl and C_{3-6} heteroaryl are optionally substituted with one or more groups selected from C_{1-3} alkyl, C_{1-6} alkoxy, C_{1-6} alkylaminocarbonyl and halogen.

2. A compound as claimed in claim 1, wherein

R^1 is selected from C_{1-6} alkyl, C_{2-6} alkenyl, C_{3-6} cycloalkyl- C_{1-4} alkyl, C_{4-6} cycloalkenyl- C_{1-4} alkyl and C_{3-6} heterocycloalkyl- C_{1-4} alkyl, wherein said C_{1-6} alkyl, C_{2-6} alkenyl, C_{3-6} cycloalkyl- C_{1-4} alkyl, C_{4-6} cycloalkenyl- C_{1-4} alkyl and C_{3-6} heterocycloalkyl- C_{1-4} alkyl used in defining R^1 is optionally substituted by one or more groups selected from halogen, methoxy, ethoxy, methyl, hydroxy and amino;

R² is selected from C₁₋₆alkyl, C₂₋₆alkenyl, C₃₋₆cycloalkyl, C₃₋₆cycloalkyl-C₁₋₄alkyl, and C₄₋₆cycloalkenyl-C₁₋₄alkyl, wherein said C₁₋₆alkyl, C₂₋₆alkenyl, C₃₋₆cycloalkyl, C₃₋₆cycloalkyl-C₁₋₄alkyl, and C₄₋₆cycloalkenyl-C₁₋₄alkyl used in defining R² is optionally substituted by one or more groups selected from halogen, methoxy, ethoxy and hydroxy;

R³ is selected from -H and C₁₋₃alkyl; and

Ar is selected from phenyl and C₃₋₆heteroaryl, wherein said phenyl and C₃₋₆heteroaryl are optionally substituted with one or more groups selected from methyl, methoxy, fluoro, chloro, bromo and iodo.

10

3. A compound as claimed claim 1,

R¹ is selected from cyclopentyl-methyl, cyclohexyl-methyl, cyclobutyl-methyl, cyclopropylmethyl, 4,4-difluorocyclohexanemethyl, tetrahydropyranyl-methyl, tetrahydrofuranyl-methyl, morpholinyl-methyl, piperdinyethyl, N-methyl-piperdiny-methyl and piperdiny-methyl;

15

R² is selected from t-butyl, n-butyl, 2-methyl-2-butyl, isopentyl, 2-hydroxy-propyl, 2-methoxy-2-propyl, 1-methyl-propyl, 1,1-dimethyl-propyl, 1,1-dimethyl-3-buten-1-yl, trifluoromethyl, 1,1-difluoroethyl, 2,2,2-trifluoroethyl, ethyl, and 2-propyl;

20

R³ is selected from -H and methyl; and

Ar is selected from phenyl, pyridyl, pyrimidyl, thiazolyl, thienyl, isoxazolyl, imidazolyl, and pyrazolyl, wherein said phenyl, pyridyl, pyrimidyl, thiazolyl, thienyl, isoxazolyl, imidazolyl, and pyrazolyl are optionally substituted with one or more groups selected from methyl, methoxy, fluoro and chloro.

25

4. A compound as claimed in claim 1, wherein

R¹ is cyclohexyl-methyl, tetrahydropyranylmethyl and 4,4-difluorocyclohexanemethyl;

R² is t-butyl and 1,1-difluoroethyl;

30

R³ is selected from -H and methyl; and

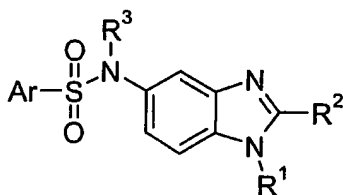
Ar is selected from phenyl, pyridyl, thiazolyl, thienyl, isoxazolyl, imidazolyl, and pyrazolyl, wherein said phenyl, pyridyl, thiazolyl, thienyl, isoxazolyl, imidazolyl, and pyrazolyl are optionally substituted with one or more methyl groups.

5. A compound selected from:
- N*-[2-*tert*-Butyl-1-(cyclohexylmethyl)-1*H*-benzimidazol-5-yl]thiophene-2-sulfonamide;
- 5 *N*-[2-*tert*-Butyl-1-(cyclohexylmethyl)-1*H*-benzimidazol-5-yl]-*N*-methylthiophene-2-sulfonamide;
- N*-(1-Benzyl-2-*tert*-butyl-1*H*-benzimidazol-5-yl)-*N*-methylbenzenesulfonamide;
- N*-[2-*tert*-Butyl-1-(cyclohexylmethyl)-1*H*-benzimidazol-5-yl]-*N*,3,5-trimethylisoxazole-4-sulfonamide;
- 10 *N*-[2-*tert*-Butyl-1-(cyclohexylmethyl)-1*H*-benzimidazol-5-yl]-*N*,1,2-trimethyl-1*H*-imidazole-4-sulfonamide;
- N*-[2-*tert*-Butyl-1-(cyclohexylmethyl)-1*H*-benzimidazol-5-yl]-*N*,1,3,5-tetramethyl-1*H*-pyrazole-4-sulfonamide;
- N*-[2-*tert*-butyl-1-(cyclohexylmethyl)-1*H*-benzimidazol-5-yl]benzene
- 15 sulphonamide;
- N*-[1-(cyclohexylmethyl)-2-ethyl-1*H*-benzimidazol-5-yl]benzenesulfonamide;
- N*-[1-(cyclohexylmethyl)-2-isopropyl-1*H*-benzimidazol-5-yl]benzene sulphonamide;
- N*-[1-(cyclohexylmethyl)-2-(1-methylcyclopropyl)-1*H*-benzimidazol-5-yl]benzenesulfonamide;
- 20 *N*-[1-(cyclohexylmethyl)-2-(1,1-dimethylpropyl)-1*H*-benzimidazol-5-yl]-benzenesulfonamide;
- N*-[1-(cyclohexylmethyl)-2-(1,1-dimethyl-3-butenyl)-1*H*-benzimidazol-5-yl]-benzenesulfonamide;
- 25 *N*-[1-(cyclohexylmethyl)-2-(1,1-dimethylethyl)-1*H*-benzimidazol-5-yl]-*N*-methylbenzenesulfonamide;
- N*-[1-(cyclohexylmethyl)-2-ethyl-1*H*-benzimidazol-5-yl]-*N*-methyl-benzene sulphonamide;
- N*-[1-(cyclohexylmethyl)-2-isopropyl-1*H*-benzimidazol-5-yl]-*N*-methyl-benzene
- 30 sulphonamide;
- N*-[1-(cyclohexylmethyl)-2-(1-methylcyclopropyl)-1*H*-benzimidazol-5-yl]-*N*-methyl-benzenesulfonamide;

- N*-[2-(1,1-dimethylethyl)-1-[(tetrahydro-2*H*-pyran-4-yl)methyl]-1*H*-benzimidazol-5-yl]-benzenesulfonamide;
- N*-[2-(1,1-dimethylethyl)-1-[(tetrahydro-2-furanyl)methyl]-1*H*-benzimidazol-5-yl]-benzenesulfonamide;
- 5 *N*-[1-(cyclobutylmethyl)-2-(1,1-dimethylethyl)-1*H*-benzimidazol-5-yl]-benzenesulfonamide;
- N*-[1-(cyclopropylmethyl)-2-(1,1-dimethylethyl)-1*H*-benzimidazol-5-yl]-benzenesulfonamide;
- N*-[2-*tert*-Butyl-1-(tetrahydro-2*H*-pyran-4-ylmethyl)-1*H*-benzimidazol-5-yl]-*N*-methylbenzenesulfonamide;
- 10 *N*-[2-*tert*-Butyl-1-(tetrahydro-2*H*-pyran-2-ylmethyl)-1*H*-benzimidazol-5-yl]-*N*-methylbenzenesulfonamide;
- N*-[1-(cyclohexylmethyl)-2-(1-hydroxy-1-methylethyl)-1*H*-benzimidazol-5-yl]-benzenesulfonamide;
- 15 *N*-[1-(cyclohexylmethyl)-2-(1-methoxy-1-methylethyl)-1*H*-benzimidazol-5-yl]-*N*-methyl-benzenesulfonamide;
- N*-[1-(cyclohexylmethyl)-2-(1-methoxy-1-methylethyl)-1*H*-benzimidazol-5-yl]—benzenesulfonamide;
- N*-[2-*tert*-butyl-1-(cyclohexylmethyl)-1*H*-benzimidazol-5-yl]-*N*,1-dimethyl-1*H*-imidazole-4-sulfonamide;
- 20 *N*-(5-{[[2-*tert*-Butyl-1-(cyclohexylmethyl)-1*H*-benzimidazol-5-yl](methyl)amino]sulfonyl}-4-methyl-1,3-thiazol-2-yl)acetamide;
- N*-[2-*tert*-Butyl-1-(cyclohexylmethyl)-1*H*-benzimidazol-5-yl]-*N*-methylpyridine-3-sulfonamide;
- 25 *N*-[2-*tert*-Butyl-1-(cyclohexylmethyl)-1*H*-benzimidazol-5-yl]-*N*,1,2-trimethyl-1*H*-imidazole-5-sulfonamide;
- N*-[2-*tert*-Butyl-1-(tetrahydro-2*H*-pyran-4-ylmethyl)-1*H*-benzimidazol-5-yl]-*N*,1,2-trimethyl-1*H*-imidazole-5-sulfonamide;
- Ethyl 4-{[[2-*tert*-butyl-1-(tetrahydro-2*H*-pyran-4-ylmethyl)-1*H*-benzimidazol-5-yl](methyl)amino]sulfonyl}-3,5-dimethyl-1*H*-pyrrole-2-carboxylate;
- 30 *N*-[2-*tert*-Butyl-1-(tetrahydro-2*H*-pyran-4-ylmethyl)-1*H*-benzimidazol-5-yl]-4-(hydroxymethyl)-*N*-methylbenzenesulfonamide;

- N*-[2-*tert*-Butyl-1-(tetrahydro-2*H*-pyran-4-ylmethyl)-1*H*-benzimidazol-5-yl]-*N*-methyl-4-(1*H*-1,2,3-triazol-1-ylmethyl)benzenesulfonamide;
- N*-[2-*tert*-Butyl-1-(tetrahydro-2*H*-pyran-4-ylmethyl)-1*H*-benzimidazol-5-yl]-4-
5 {[(2-hydroxyethyl)amino]methyl}-*N*-methylbenzenesulfonamide;
- N*-[2-*tert*-Butyl-1-(cyclopentylmethyl)-1*H*-benzimidazol-5-yl]-*N*-methylbenzenesulfonamide;
- N*-[2-*tert*-Butyl-1-(2-cyclohexylethyl)-1*H*-benzimidazol-5-yl]-*N*-methylbenzenesulfonamide;
- N*-[1-(1-Benzylpyrrolidin-3-yl)-2-*tert*-butyl-1*H*-benzimidazol-5-yl]-*N*-
10 methylbenzenesulfonamide;
- N*-{2-*tert*-Butyl-1-[(4,4-difluorocyclohexyl)methyl]-1*H*-benzimidazol-5-yl}-*N*-methylbenzenesulfonamide;
- N*-[2-*tert*-Butyl-1-(pyridin-4-ylmethyl)-1*H*-benzimidazol-5-yl]-*N*-methylbenzenesulfonamide;
- N*-methyl-*N*-[1-(tetrahydro-2*H*-pyran-4-ylmethyl)-2-(trifluoromethyl)-1*H*-
15 benzimidazol-5-yl]benzenesulfonamide;
- N*-[2-(1,1-difluoroethyl)-1-(tetrahydro-2*H*-pyran-4-ylmethyl)-1*H*-benzimidazol-5-yl]-*N*-methylbenzenesulfonamide;
- N*-methyl-*N*-[1-(tetrahydro-2*H*-pyran-4-ylmethyl)-2-(2,2,2-trifluoroethyl)-1*H*-
20 benzimidazol-5-yl]benzenesulfonamide;
- N*-[1-(cyclohexylmethyl)-2-(1-ethylpropyl)-1*H*-benzimidazol-5-yl]benzenesulfonamide;
- N*-[1-(cyclohexylmethyl)-2-(1-ethylpropyl)-1*H*-benzimidazol-5-yl]-*N*-methylbenzenesulfonamide;
- N*-[2-*tert*-butyl-1-(cyclohexylmethyl)-1*H*-benzimidazol-5-yl]-*N*-ethylbenzenesulfonamide;
- N*-methyl-*N*-[2-(1-methyl-1-pyridin-2-ylethyl)-1-(tetrahydro-2*H*-pyran-4-ylmethyl)-1*H*-benzimidazol-5-yl]benzenesulfonamide;
- N*-[2-(1-cyano-1-methylethyl)-1-(tetrahydro-2*H*-pyran-4-ylmethyl)-1*H*-
30 benzimidazol-5-yl]-*N*-methylbenzenesulfonamide;
- N*-methyl-*N*-[2-propyl-1-(tetrahydro-2*H*-pyran-4-ylmethyl)-1*H*-benzimidazol-5-yl]benzenesulfonamide;

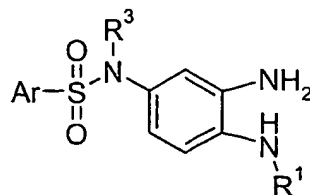
- N*-[2-butyl-1-(tetrahydro-2*H*-pyran-4-ylmethyl)-1*H*-benzimidazol-5-yl]-*N*-methylbenzenesulfonamide;
N-[2-*tert*-butyl-1-(tetrahydro-2*H*-pyran-4-ylmethyl)-1*H*-benzimidazol-5-yl]-*N*-ethylbenzenesulfonamide;
 5 *N*-ethyl-*N*-[2-(1-methoxy-1-methylethyl)-1-(tetrahydro-2*H*-pyran-4-ylmethyl)-1*H*-benzimidazol-5-yl]benzenesulfonamide;
 and pharmaceutically acceptable salts thereof.
6. A compound according to any one of claims 1-5 for use as a medicament.
- 10 7. The use of a compound according to any one of claims 1-5 in the manufacture of a medicament for the therapy of pain.
8. The use of a compound according to any one of claims 1-5 in the manufacture
 15 of a medicament for the treatment of anxiety disorders.
9. The use of a compound according to any one of claims 1-5 in the manufacture of a medicament for the treatment of cancer, multiple sclerosis, Parkinson's disease, cancer, Huntington's chorea, Alzheimer's disease, gastrointestinal disorders and
 20 cardiovascular disorders.
10. A pharmaceutical composition comprising a compound according to any one of claims 1-5 and a pharmaceutically acceptable carrier.
- 25 11. A method for the therapy of pain in a warm-blooded animal, comprising the step of administering to said animal in need of such therapy a therapeutically effective amount of a compound according to any one of claims 1-5.
- 12 A method of preparing a compound of Formula I,



I

comprising:

reacting a compound of Formula II,



5

II

with a compound of R^2COX , in the presence of a base, such as an alkylamine, and optionally a coupling reagent, such as HATU, EDC;

wherein

X is selected from Cl, Br, F and OH;

10 R^1 is selected from C_{1-10} alkyl, C_{2-10} alkenyl, C_{3-10} cycloalkyl- C_{1-4} alkyl, C_{4-8} cycloalkenyl- C_{1-4} alkyl, C_{3-6} heterocycloalkyl- C_{1-4} alkyl, C_{3-10} cycloalkyl, C_{4-8} cycloalkenyl, and C_{3-6} heterocycloalkyl, wherein said C_{1-10} alkyl, C_{2-10} alkenyl, C_{3-10} cycloalkyl- C_{1-4} alkyl, C_{4-8} cycloalkenyl- C_{1-4} alkyl, C_{3-6} heterocycloalkyl- C_{1-4} alkyl, C_{3-10} cycloalkyl, C_{4-8} cycloalkenyl, and C_{3-6} heterocycloalkyl used in defining R^1 is
15 optionally substituted by one or more groups selected from halogen, cyano, nitro, methoxy, ethoxy, methyl, ethyl, hydroxy and amino;

R^2 is selected from C_{1-10} alkyl, C_{2-10} alkenyl, C_{3-10} cycloalkyl, C_{3-10} cycloalkyl- C_{1-4} alkyl, and C_{4-8} cycloalkenyl- C_{1-4} alkyl, wherein said C_{1-10} alkyl, C_{2-10} alkenyl, C_{3-10} cycloalkyl, C_{3-10} cycloalkyl- C_{1-4} alkyl, and C_{4-8} cycloalkenyl- C_{1-4} alkyl used in
20 defining R^2 is optionally substituted by one or more groups selected from halogen, methoxy, ethoxy, methyl, ethyl, hydroxy, and amino;

R^3 is selected from -H, C_{1-6} alkyl, C_{2-6} alkenyl, C_{3-6} cycloalkyl, and C_{3-6} cycloalkyl- C_{1-4} alkyl; and

Ar is selected from C_{6-10} aryl and C_{3-6} heteroaryl, wherein said C_{6-10} aryl and C_{3-6} heteroaryl are optionally substituted with one or more groups selected from C_{1-3} alkyl, C_{1-6} alkoxy, C_{1-6} alkylaminocarbonyl and halogen.
25